(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁷: H04M 3/42,
G06F 15/16

(21) International Application Number:
PCT/SE2005/000172

(22) International Filing Date: 10 February 2005 (10.02.2005)

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:
0400292-9   11 February 2004 (11.02.2004)   SE
0401284-5   18 May 2004 (18.05.2004)   SE

(71) Applicant (for all designated States except US):
TELIGENT AB [SE/SE]; P.O. Box 213, S-149 23
NYNÄSHAMN (SE).

(72) Inventor; and
(75) Inventor/Applicant (for US only): LARSSON, Conny
[SE/SE]; Björnbacken, S-640 61 STALLARHOLMEN
(SE).

(74) Agents: ÖRTENBLAD, Bertil et al.; NORÉNS PATENT-
BYRÅ AB, Box 10198, S-100 55 STOCKHOLM (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF ESTABLISHING COOPERATIVE SERVICES IN A COMPUTER SYSTEM
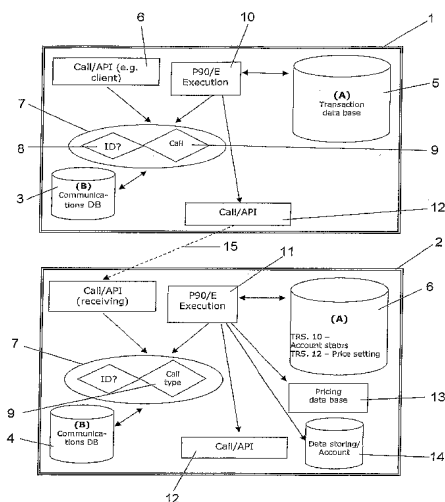
(57) Abstract: The present invention relates to a method of achieving co-acting
services in a data system that, includes telephone services and/or data services,
wherein the data system includes a first computer system (1) and at least one
further, a second, computer system (2), wherein the computer systems each in-
clude a computer (10;11) having associated memories, wherein the first and the
second computer system respectively are each connected to at least one com-
munications database (3; 4) that includes communications services, particularly
telephone and data services, stored as transaction references, i.e. references to
transactions, wherein said computer systems are adapted to execute communi-
cations services in accordance with a data program, wherein at least a transac-
tion database (5; 6) connected to each computer (10; 11) is caused to contain a
pre-determined number of transactions which are identified by said transaction
references where each transaction is in the form of parts of a data program and
wherein respective computer systems are caused to fetch one or more transac-
tions from said transactions database (5;6) or databases, said transactions to-
gether forming a data programme for executing said services. The invention is
characterized in that said transactions include instructions relating to said ser-
vices and also to further services that shall be executed by the data system, in
that fetching of transactions for execution in the data system is initiated in re-
sponse to a call (6) incoming to the system from a telephone or from an external
computer to which a communications service is tied in the communications database (3; 4), in that the call includes an information
part (7) in the form of an identification (8) of the called party (ID) and an indication (9) of the type of call concerned, and in that
the first (1) and the second (2) computer systems are caused to have an execution environment such that essentially all execution
and instructions from one computer system (1) to the remaining computer systems (2) in said system will be caused to take place
through the agency of said transactions, and in that certain transaction references identify transactions which, upon execution, cause
the service concerned to be transferred to a computer system (2) other than the call receiving computer system (1) for execution in
the beforementioned computer system (2) and in that the information part (7) is transferred together with the transfer of said service.

METHOD OF ESTABLISHING COOPERATIVE SERVICES IN A COMPUTER SYSTEM.

The present invention relates to a method of achieving co-acting services in a data system.

There is described in European Patent Specification No. 0928548 a prior art system for executing a telephone service where said service is executed by calling a number of transactions from a database containing said transactions, whereafter the services are executed. This system is tied to a local system, in other words execution takes place on the computer called directly or indirectly by a client.

With regard to the management of greater and more complex services, it is probable that more than one called computer will be required to participate in the processing of information and the execution of the services.

This problem is resolved by means of the present invention, which enables several computers to co-act with one another.

The present invention thus relates to a method of achieving mutually co-acting services in a data system that includes telephone services and/or data services, wherein said data system includes a first computer system and at least one further, a second, computer system, wherein each computer system includes a computer with associated memories, wherein the first and the second computer system are respectively connected to at least one communications database that includes communications services, particularly telephone and data services, stored as transaction references, i.e. as references to transactions, wherein the computer system is adapted to execute the communications services in accordance with a data program, wherein at least one transactions database connected to each computer is caused to contain a predetermined number of transactions that are identified by said transaction references, wherein each transaction is in the form of parts of a data program and wherein respective computer systems are caused to fetch one or more transactions from said transaction database or databases, said transactions together forming a data program for executing said services, and wherein the invention is characterised in that said transactions include instructions concerning said services and also other concerned services that shall be executed by the data system; in that initiation to fetch